

A new variant of the subdomain method for integral equations of the third kind with singularities in the kernel

Gabbasov N., Zamaliev R.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

In this paper we study integral equations of the third kind with fixed singularities in the kernel. For the approximate solution of these equations in the space of generalized functions we propose and justify a new generalized variant of the subdomain method. © Allerton Press, Inc., 2011.

<http://dx.doi.org/10.3103/S1066369X11050021>

Keywords

Approximate solution, Integral equations of the third kind, Space of generalized functions, Subdomain method, Theoretical justification